

# USCMS Engineer Status Report for February 2003

Bill Tanenbaum

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## 1 Work Performed This Month

Work with Philippe Canal on determining the full ROOT browsability of CMS Pool files, and determining what needs to be done by ROOT and POOL to insure full browsability. The work items are either done, in progress, or in the work plans. In the process, I discovered one previously unknown incompatibility (POOL stores class members in alphabetical order, whereas ROOT uses the order in the class declaration). This will be addressed.

Investigated and found the underlying problem when Digitization runs in the FNAL pre-challenge production failed. The SimHits metadata, prepared and sent from CERN, was bad, with all the Read-Out units missing.

Found that the code needed for POOL/ROOT to access dCache was not installed by LCG for the POOL release where it was supposed to be. Gave instructions to LCG personnel for the proper installation procedures to support dCache.

Began actual coding of adding a POOL Collection Reader/Writer to the COBRA Framework.

Revised the entire POOL User Guide for English grammar and spelling.

Prepared and preseted talk on POOL at the ROOT workshop, feb 25-27.

Had one more meeting planning for future work on POOL Collections.

## 2 Plans For Next Month

Continue work on Pool collection reader/writer in COBRA.

Begin modification of CMS framework to support the optional writing of POOL event data in ROOT trees (within POOL), in order to enhance the browsability of the data, and the ability to do ROOT analysis on it.

Work as member of POOL collection team. Ensure that POOL collections meet the needs of CMS users.